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10/799,815	03/12/2004	Lawrence J. Merboth	LUCW:0009	8379
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P.O. BOX 692	289		WENDELL, ANDREW	
HOUSTON, T	X 77069		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
·	10/799,815	MERBOTH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Andrew Wendell	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 13 No.	Responsive to communication(s) filed on <u>13 November 2007</u> .					
,	· —					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	tx раπе Quayle, 1935 С.D. 11, -	453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers	,					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicated any not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Stion is required if the drawing(s) is a	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 6, 13, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mantha et al. (US Pat Appl# 2004/0023622) in view of Lachtar et al. (US Pat Pub# 2003/0125039).

Regarding claim 1, Mantha et al. system for allocating power teaches a device for allocating power comprising a power sharing module configured to receive a plurality of signals corresponding to at least one predicted power allocation (Sections 0015-0017 and 0080 or 105 of Fig. 4) and at least one current power allocation 110 and 115 (Fig. 4) and to determine from the plurality of signals whether a first industry standard (Section 0048) wireless system (voice service) corresponding to a first wireless service has un-utilized transmission power 115 and 120 (Fig. 4); and a scheduler configured to receive an indication to allocate the un-utilized transmission power from the first wireless service of the first industry standard (Section 0048) wireless system to the second wireless service of a second industry standard (Section 0048) wireless system (data service) and utilize the indication to allocate the un-utilized transmission power for

the second wireless service 125 (Fig. 4, Sections 0008-0010 and 0057-0069). Mantha fails to teach a first and second industry standard wireless system.

Lachtar teaches a first industry standard wireless system 104, 108A/B, and 110A/B (Fig. 1) and a second industry standard wireless system 106, 112A/B, and 114A/B (Fig. 1). Note, Lachtar deals with allocation (Figs. 1 and 2) between two systems (applicant does not state the two systems are different, ex. CDMA2000 1x for the first and CDMA 2000 1x EVDV for the second) which is similar to applicant's invention of power allocation.

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate a first and second industry standard wireless system as taught by Lachtar into Mantha's power allocating system in order to reduce failures (Sections 0007-0008).

Regarding claim 6, the combination including Mantha teaches wherein the power sharing module provides the scheduler with the indication to allocate the un-utilized transmission power within a 2 power control group interval (Sections 0008-0010 and 0057-0069).

Regarding claim 13, Mantha et al. teaches providing a first wireless system (voice service, V sub 1 to V sub V of Fig. 1) and a second wireless system (data service, D sub 1 to D sub z of Fig. 1) for a plurality of wireless units 44 and 48 (Fig. 1); obtaining a plurality of input signals corresponding to a plurality of predicted transmission power allocations (Sections 0015-0017 and 0080 or 105 of Fig. 4) and a plurality of current transmission power allocations 110 and 115 (Fig. 4); determining

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from the plurality of input signals whether the second wireless system may utilize transmission power from the first wireless system 110 and 115 (Fig. 4); and allocating transmission power to the second wireless from the first wireless system for at least one communication channel based on an indication of transmission power that is un-utilized by the first wireless service system 110, 115, 120, and 125 (Fig. 4, Sections 0008-0010) and 0057-0069). Mantha fails to teach a first and second industry standard wireless system.

Lachtar teaches a first industry standard wireless system 104, 108A/B, and 110A/B (Fig. 1) and a second industry standard wireless system 106, 112A/B, and 114A/B (Fig. 1). Note, Lachtar deals with allocation (Figs. 1 and 2) between two systems (applicant does not state the two systems are different, ex. CDMA2000 1x for the first and CDMA 2000 1x EVDV for the second) which is similar to applicant's invention of power allocation.

Regarding claim 17, the combination including Mantha teaches wherein the plurality of wireless units comprises a plurality of cellular telephones (Sections 0046-0047).

Regarding claim 18, the combination including Mantha teaches wherein the plurality of wireless units comprises at least one portable computer system (Sections 0046-0047).

Regarding claim 19, Mantha et al. teaches receiving a plurality of input signals corresponding to at least one predicted power allocation (Sections 0015-0017 and 0080 or 105 of Fig. 4) for a first wireless system (voice service, V sub 1 to V sub V of Fig. 1)

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and at least one current power allocation for the first wireless service system 110 and 115 (Fig. 4) and a second wireless system (data service, D sub 1 to D sub z of Fig. 1); determining from the plurality of input signals whether non-utilized transmission power from the first wireless system may be allocated to the second wireless system 110 and 115 (Fig. 4); and providing an indication to allocate non-utilized transmission power from the first wireless system to the second wireless system to a scheduler 110, 115, 120, and 125 (Fig. 4, Sections 0008-0010 and 0057-0069). Mantha fails to teach a first and second industry standard wireless system.

Lachtar teaches a first industry standard wireless system 104, 108A/B, and 110A/B (Fig. 1) and a second industry standard wireless system 106, 112A/B, and 114A/B (Fig. 1). Note, Lachtar deals with allocation (Figs. 1 and 2) between two systems (applicant does not state the two systems are different, ex. CDMA2000 1x for the first and CDMA 2000 1x EVDV for the second) which is similar to applicant's invention of power allocation.

Regarding claim 20, the combination including Mantha teaches the act of allocating the non-utilized transmission power based on the indication to allocate non-utilized transmission power from the first wireless system to the second wireless system for transmissions to a wireless unit (Sections 0008-0010 and 0057-0069). Mantha fails to teach a first and second industry standard wireless system.

Lachtar teaches a first industry standard wireless system 104, 108A/B, and 110A/B (Fig. 1) and a second industry standard wireless system 106, 112A/B, and 114A/B (Fig. 1).

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3. Claims 2-5, 14-16, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mantha et al. (US Pat Appl# 2004/0023622) in view of Lachtar et al. (US Pat Pub# 2003/0125039) and further in view of Jeon et al. (US Pat Appl# 2004/0253928).

Regarding claim 2, Mantha et al. system for allocating power in view of Lachtar teaches the limitations in claim 1. Mantha and Lachtar fails to teach the first wireless service having CDMA200 1x service.

Jeon et al. power allocation method and apparatus for providing packet data service in mobile communication system teaches a wireless service comprises a CDMA2000 1x service (Section 0091).

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate CDMA200 1x service as taught by Jeon et al. into a first and second industry standard wireless system as taught by Lachtar into Mantha et al. system for allocating power in order to improve performance (Sections 0015-0016).

Regarding claim 3, Jeon further teaches a 1x system (Section 0091).

Regarding claim 4, Jeon further teaches a wireless service comprises a CDMA2000 1x evolution data and voice (EVDV) service (Section 0004).

Regarding claim 5, Jeon further teaches wherein the second industry standard wireless system comprises an EVDV system.

Regarding claim 14, Jeon further teaches a first industry standard wireless system comprises a CDMA2000 1x service (Section 0091).

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Regarding claim 15, Jeon teaches a wireless system comprises a CDMA2000 1x evolution data and voice (EVDV) service system (Section 0004).

Regarding claim 16, Mantha further teaches transmitting the at least one communication channel to at least one of the second portion of the plurality of wireless units (Sections 0044-0053).

Regarding claim 21, Jeon further teaches a wireless service comprises a CDMA2000 1x evolution data and voice (EVDV) communication channel (Section 0004).

4. Claims 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mantha et al. (US Pat Appl# 2004/0023622) in view of Lachtar et al. (US Pat Pub# 2003/0125039) and further in view of Kang (US Pat Appl# 2001/0016503).

Regarding claim 8, Mantha et al. system for allocating power teaches a first baseband (voice service) system that communicates with a first group of the plurality of wireless units 44 (Fig. 1) via a first plurality of communication channels (Fig. 1, V sub 1 to V sub V); and a second baseband system (data service, D sub 1 to D sub z of Fig. 1) that communicates with a second group of the plurality of wireless units 48 (Fig. 1) via a second plurality of communication channels, the first and second baseband systems sharing a platform 24 and 40 (Fig. 1, voice and data systems coming from the same base station) the second baseband system comprising a power sharing module configured to receive a plurality of signals corresponding to a plurality of predicted power allocation (Sections 0015-0017 and 0080 or 105 of Fig. 4) and a plurality of current power allocations 110 and 115 (Fig. 4) and to determine from the plurality of

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signals whether the second baseband system may allocate power from the first baseband system 110 and 115 (Fig. 4); and a scheduler configured to receive an indication to allocate un-utilized transmission power to the second baseband system from the first baseband system and to utilize the indication to allocate un-utilized transmission power for the second plurality of communication channels 110, 115, 120, and 125 (Fig. 4, Sections 0008-0010 and 0057-0069). Mantha fails to teach a first and second industry standard wireless system and a channel card.

Lachtar teaches a first industry standard wireless system 104, 108A/B, and 110A/B (Fig. 1) and a second industry standard wireless system 106, 112A/B, and 114A/B (Fig. 1). Note, Lachtar deals with allocation (Figs. 1 and 2) between two systems (applicant does not state the two systems are different, ex. CDMA2000 1x for the first and CDMA 2000 1x EVDV for the second) which is similar to applicant's invention of power allocation.

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate a first and second industry standard wireless system as taught by Lachtar into Mantha's power allocating system in order to reduce failures (Sections 0007-0008).

Mantha and Lachtar fail to teach a channel card.

Kang's CDMA base station system teaches a radio frequency system having a channel card103 (Fig. 1) configured to communicate with a plurality of wireless units 111 and 112 (Fig. 1).

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Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate a channel card as taught by Kang into a first and second industry standard wireless system as taught by Lachtar into Mantha et al. system for allocating power in order to minimize the deterioration of the call quality in a CDMA system (Section 0020).

Regarding claim 10, Kang further teaches wherein the channel card comprises at least one transceiver 104 and 105 (Fig. 1) configured to communicate with the plurality of wireless units 111 and 112 (Fig. 1).

5. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mantha et al. (US Pat Appl# 2004/0023622)) in view of Lachtar et al. (US Pat Pub# 2003/0125039) and further in view of Kang (US Pat Appl# 2001/0016503) and further in view of Hongo et al. (US Pat Appl# 2003/0022639).

Regarding claim 9, Mantha et al. system for allocating power in view of Lachtar and further in view of Kang's CDMA base station system teaches the limitations in claim 8. Mantha, Lachtar, and Kang fail to teach determining a power average and instant power of a signal.

Hongo et al. peak limiter and multi-carrier amplification apparatus teaches a power system that determines a radio frequency output power average 11 (Fig. 3) and an instant radio frequency power 12 (Fig. 3).

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate determining a power average and instant power of a signal as taught by Hongo et al. into a channel

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card as taught by Kang into a first and second industry standard wireless system as taught by Lachtar into Mantha et al. system for allocating power in order to enhance the power efficiency (Section 0031).

6. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mantha et al. (US Pat Appl# 2004/0023622) in view of Lachtar et al. (US Pat Pub# 2003/0125039) and further in view of Kang (US Pat Appl# 2001/0016503) and further in view of Jeon et al. (US Pat Appl# 2004/0253928).

Regarding claim 11, Mantha et al. system for allocating power in view of Lachtar and further in view of Kang's CDMA base station system teaches the limitations in claim 8. Mantha, Lachtar and Kang fail to teach a CDMA2000 1x service.

Jeon et al. power allocation method and apparatus for providing packet data service in mobile communication system teaches a wireless systm comprises a CDMA2000 1x service (Section 0091).

Therefore, it would have been obvious at the time of the invention to one of ordinary skill in the art at the time the invention was made to incorporate CDMA200 1x service as taught by Jeon et al. into a channel card as taught by Kang into a first and second industry standard wireless system as taught by Lachtar into Mantha et al. system for allocating power in order to improve performance (Sections 0015-0016).

Regarding claim 12, Jeon et al. further teaches a wireless system comprises a CDMA2000 1x evolution data and voice (EVDV) service (Section 0004).

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Response to Arguments

7. Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Wendell whose telephone number is 571-272-0557. The examiner can normally be reached on 7:30-5 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Andrew Wendell

Examiner Art Unit 2618

NAY MAUNG SUPERVISORY PATENT EXAMINER Application/Control Number: 10/799,815 Art Unit: 2618

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